

WEIGHT AND BALANCE / TOLD

C-182T

C-182T N-
 DATE: SORTIE #
 PIC:

AIRCRAFT BASIC EMPTY WEIGHT

USABLE FUEL (PICK ONLY ONE, FULL OR TABS)

FULL: 87 GAL X 6 LBS/GAL

TABS: 64 GAL X 6 LBS/GAL

PILOT AND COPILOT

REAR PASSENGERS

BAGGAGE AREA A (120 LBS MAX)

BAGGAGE AREA B (80 LBS MAX)

BAGGAGE AREA C (80 LBS MAX)

START, TAXI, RUNUP FUEL

TAKEOFF WEIGHT / CG / MOMENT

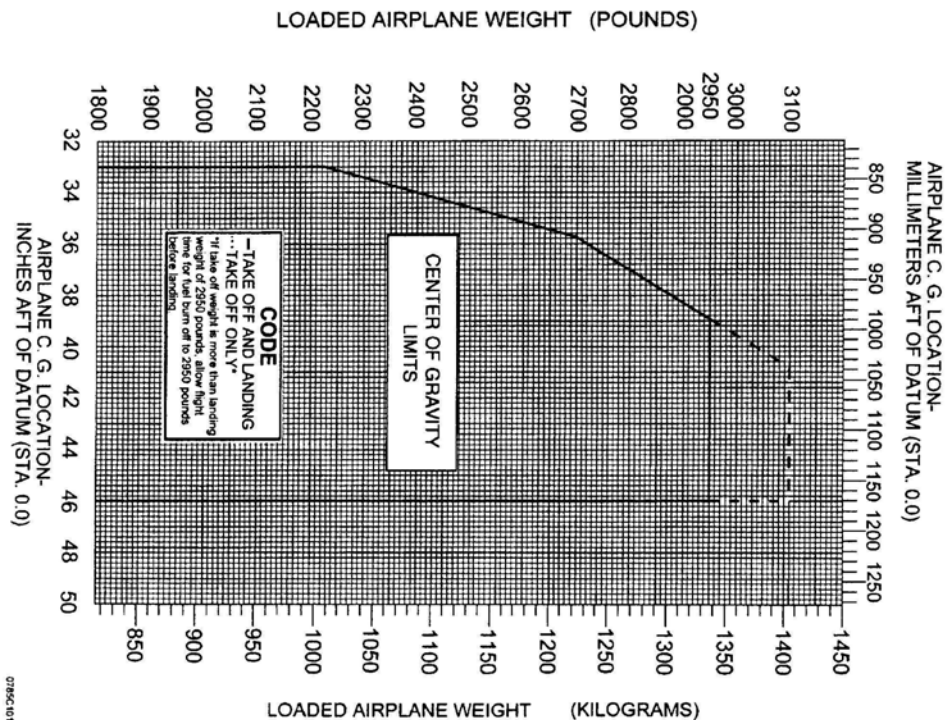
MISSION FUEL (14 GAL X 6 LBS X #HRS)

LANDING WEIGHT / CG / MOMENT

| WEIGHT (LBS) | ARM (IN) | MOMENT (IN/LBS) |
|-----------------|-------------|--------------------|
| + | X 46.5 | + |
| | | |
| | | |
| + | X 37.0 | + |
| + | X 74.0 | + |
| + | X 97.0 | + |
| + | X 116.0 | + |
| + | X 129.0 | + |
| -10.0 | X 46.5 | -465 |
| | | |
| - | X 46.5 | - |
| | | |

CG (IN) = SUM OF MOMENTS / SUM OF WEIGHTS

WRITE TAKEOFF AND LANDING CG IN ARM COLUMN ABOVE, MARK ON DIAGRAM BELOW



WEIGHT AND BALANCE / TOLD

C-182T

SECTION 5
PERFORMANCE

CESSNA
MODEL 182T

SHORT FIELD LANDING DISTANCE AT 2950 POUNDS

CONDITIONS:

Flaps FULL
Power Off
Maximum Braking
Paved, level, dry runway
Zero Wind
Speed at 50 Ft: 60 KIAS

| | 0°C | | | 10°C | | | 20°C | | | 30°C | | | 40°C | | |
|----------------------------|--------------------|--|--|--------------------|--|--|--------------------|--|--|--------------------|--|--|--------------------|--|--|
| | Grnd Roll Ft | Total Ft To Clear 50 Ft Obst | | Grnd Roll Ft | Total Ft To Clear 50 Ft Obst | | Grnd Roll Ft | Total Ft To Clear 50 Ft Obst | | Grnd Roll Ft | Total Ft To Clear 50 Ft Obst | | Grnd Roll Ft | Total Ft To Clear 50 Ft Obst | |
| Press Alt In Feet | | | | | | | | | | | | | | | |
| S. L. | 560 | 1300 | | 580 | 1335 | | 600 | 1365 | | 620 | 1400 | | 640 | 1435 | |
| 1000 | 580 | 1265 | | 600 | 1365 | | 620 | 1400 | | 645 | 1440 | | 665 | 1475 | |
| 2000 | 600 | 1370 | | 625 | 1405 | | 645 | 1440 | | 670 | 1480 | | 690 | 1515 | |
| 3000 | 625 | 1410 | | 645 | 1445 | | 670 | 1485 | | 695 | 1525 | | 715 | 1560 | |
| 4000 | 650 | 1450 | | 670 | 1485 | | 695 | 1525 | | 720 | 1565 | | 740 | 1600 | |
| 5000 | 670 | 1485 | | 695 | 1525 | | 720 | 1565 | | 745 | 1610 | | 770 | 1650 | |
| 6000 | 700 | 1530 | | 725 | 1575 | | 750 | 1615 | | 775 | 1660 | | 800 | 1700 | |
| 7000 | 725 | 1575 | | 750 | 1615 | | 780 | 1665 | | 805 | 1710 | | 830 | 1750 | |
| 8000 | 755 | 1625 | | 780 | 1655 | | 810 | 1715 | | 835 | 1760 | | 865 | 1805 | |

NOTES:

1. Short field technique as specified in Section 4.
2. Decrease distances 10% for each 9 knots headwind. For operation with tail winds up to 10 knots, increase distances by 10% for each 2 knots.
3. For operation on dry, grass runway, increase distances by 45% of the "ground roll" figure.
4. If a landing with flaps up is necessary, increase the approach speed by 10 KIAS and allow for 40% longer distances.

Figure 5-12. Short Field Landing Distance

SECTION 5
PERFORMANCE

CESSNA
MODEL 182T

SHORT FIELD TAKEOFF DISTANCE AT 3100 POUNDS

CONDITIONS:

Flaps 20°
2400 RPM, Full Throttle and Mixture Set Prior to Brake Release
Cowl Flaps Open
Paved, Level, Dry Runway
Zero Wind
Lift Off: 49 KIAS
Speed at 50 Ft: 58 KIAS

| | 0°C | | | 10°C | | | 20°C | | | 30°C | | | 40°C | | |
|----------------------------|--------------------|--|--|--------------------|--|--|--------------------|--|--|--------------------|--|--|--------------------|--|--|
| | Grnd Roll Ft | Total Ft To Clear 50 Ft Obst | | Grnd Roll Ft | Total Ft To Clear 50 Ft Obst | | Grnd Roll Ft | Total Ft To Clear 50 Ft Obst | | Grnd Roll Ft | Total Ft To Clear 50 Ft Obst | | Grnd Roll Ft | Total Ft To Clear 50 Ft Obst | |
| Press Alt In Feet | | | | | | | | | | | | | | | |
| S. L. | 715 | 1365 | | 765 | 1460 | | 825 | 1570 | | 885 | 1680 | | 945 | 1800 | |
| 1000 | 775 | 1490 | | 835 | 1600 | | 900 | 1720 | | 965 | 1845 | | 1030 | 1980 | |
| 2000 | 850 | 1635 | | 915 | 1760 | | 980 | 1890 | | 1055 | 2035 | | 1130 | 2190 | |
| 3000 | 925 | 1800 | | 995 | 1940 | | 1070 | 2090 | | 1150 | 2255 | | 1235 | 2435 | |
| 4000 | 1015 | 1990 | | 1090 | 2150 | | 1175 | 2325 | | 1260 | 2515 | | 1355 | 2720 | |
| 5000 | 1110 | 2210 | | 1195 | 2395 | | 1290 | 2595 | | 1385 | 2820 | | 1485 | 3070 | |
| 6000 | 1220 | 2470 | | 1315 | 2690 | | 1415 | 2930 | | 1520 | 3200 | | 1635 | 3510 | |
| 7000 | 1340 | 2785 | | 1445 | 3045 | | 1560 | 3345 | | 1675 | 3685 | | --- | --- | |
| 8000 | 1480 | 3175 | | 1595 | 3500 | | 1720 | 3880 | | --- | --- | | --- | --- | |

NOTES:

1. Short field technique as specified in Section 4.
2. Prior to takeoff, the mixture should be leaned to the Maximum Power Fuel Flow placard value in a full throttle, static runup.
3. Decrease distances 10% for each 9 knots headwind. For operation with tail winds up to 10 knots, increase distances by 10% for each 2 knots.
4. For operation on dry, grass runway, increase distances by 15% of the "ground roll" figure.

Figure 5-6. Short Field Takeoff Distance (Sheet 1 of 3)